

DIA Fire & Rescue
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FEDERAL COMMUNICATIONS COMMISSION
1270 Fairfield Road
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Application Narrative for Proposed Special Equipment Program

Proposed Program

DIA Fire & Rescue operates 4 facilities located away from metropolitan areas in remote locations around DIA. The operation of these systems is critical to minimizing the response time when responding to emergencies. These systems allow the vehicles to maintain a GPS lock indoors so they are ready for departure at any given instant.

Bringing the L1 GPS Signal inside the hangar will also greatly enhance our ability to expedite maintenance and conduct comprehensive testing and development of new and improved methods to minimize response time.

Our proposed set up is already in use and specified in the approved application to re-radiate GPS Signals (WD2XTF). The proposed equipment is of a design and power output similar to a kit manufactured by GPS Source which has been licensed to re-radiate in their test lab.

GPS Repeater Kit P/N: HNRRKIT-N/5/110

Objectives

We seek to accomplish the following objectives:

1. Illumination of our development and test areas with GPS Signals so that vehicles can immediately respond to emergencies without waiting for 1st fix after exiting the building
2. Further design, development and enhancement of existing systems and new product testing
3. Ability to troubleshoot and repair systems indoors

Contribution to Radio Art

Projects are currently under way at DIA Fire & Rescue to provide better and more useful methods to incorporate GPS-derived information (position, speed, and heading) in a variety of innovative applications to improve our ability to respond to emergencies in the most efficient manner possible.